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TB 1742

## **TECHNICAL DATA**

ThreeBond 1742

Cyanoacrylate Adhesive

**Three Bond 1742** is a cyanoacrylate-based instant high-strength adhesive of solventless single-fluid type. It polymerizes in a few seconds and binds strongly on almost all materials except for materials, which absorb the adhesive.

#### Features

- Instant bonding. Strong adhesion in only 5 to 30 seconds.
- No mixing, pressure or heat required.
- Strong adhesion at room temperature.
- Very small quantity required. Its relatively low viscosity allows good spread and penetration.
- Clean appearance. Bonding is colourless, transparent and clean.

### **Applications**

- For binding weather-strip rubber and door stop rubber.
- Firm fixing of the speed changer level.
  - Suitable for bonding wood such as balsa or plywood. Also applicable to rubber, plastic, metal, ceramics and paper.

### **Directions for Use**

- Remove the cap and prick the nozzle to open a small hole with the provided needle.
- Thoroughly clean surfaces of water, oil, rust and other foreign matters.
- Apply a very small quantity of adhesive to sufficiently spread and cover the surface to be bonded.
- Press the two surfaces together to help spread fluid thinly and uniformly until the two faces are fixed at the desired position.

• The set time may vary depending upon the acidity and water content of the wood materials, temperature and humidity of working site.

• For bonding butt ends, it is recommended to take bonding area as wide as possible and to press objects together to ensure stronger bonding

All recommendations and statements are based on our research and we believe them to be reliable. We cannot guarantee the results obtained through the use of our products. All products are sold and samples are given without warranty, expressed or implied, of fitness for any particular purpose or otherwise. The user shall make his own tests to determine the suitability of the product for his purpose. No agency or representative or employee of this company is authorised to change this provision.

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### **Properties**

Item	Units	Results
Appearance		Transparent
Viscosity25°C	mPa⋅s	30
Specific Gravity25°C		1.07
Fixing time (NBR / NBR)	S	6
Boiling point	°C	60
Flash point	°C	85

### Adhesion

Material	Shear Strength [MPa]
Steel	11.9
Aluminium	5.0
PVC	2.5 *
PC	3.4
Phenol	8.2 *
ABS	4.7
Epoxy FR4	15.4
PPS	1.4
PS	3.5 *

\* : Material broken

Set time depends on the material itself, on the gap between the two material to be bonded and on the environmental conditions (temperature and humidity). This set time have been measured at  $23^{\circ}$ C, 50% RH.

### Whitening

The adhesive in the container or around the bonded site may turn white. This is called whitening. Whitening affects neither bond strength nor material properties. Preventing whitening forcibly by using some chemicals may cause adverse effects with respect to bond strength, set time or toxicity. It is advisable, therefore, not to suppress whitening by any means unless the appearance poses serious problem. If whitening is to be prevented as far as possible, try the following measures:

- Reduce the humidity in the work site and improve ventilation.
- Minimize the amount of adhesive to be applied.

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### **Handling Precautions**

- Harmful. Do not inhale or ingest. In the event that this product is ingested, consult a physician immediately.
- If using a large amount of this product or using for a long time, it is compulsory to ventilate the area well. If necessary, use mask, non-permeable gloves, and protective glasses. Ventilate well with local exhaust equipment.
- In case of eye contact, do not blink or rub eyes. Absolutely do not use remover or solvent. Consult a physician immediately.
- In case of abnormal reaction, stop using and consult a physician.
- Do not use on human body.
- Persons with allergies or who are sensitive should not use this product.
- Product may spray, do not point nozzle towards other persons.
- Cautions: Bonds skin and mucous membrane instantly.
- In case fingers or other skin areas are inseparably bonded together, gently tear apart by immersing into warm water (about 40°C) and rub around affected area.
- Upon contact with clothes, burns may occur due to heat generated from the chemical reaction.
- Handle with appropriate care.
- Please read direction and brochure carefully before use.
- To prevent dew formation, wait till the contents had reached room temperature before opening.
- Depending on the material of the mating surfaces, the surface may deteriorate. Confirm the effect of the product before use.
- If adhesive overflows, whitening may occur.
- This product cannot bond with polyethylene, polypropylene, silicone resin, soft PVC and glass
- Keep away from children.
- Avoid direct sunlight; store at low temperature (5 ~ 10°C) and low humidity.
- Product may solidify in container. Do not store with accelerator, epoxy hardener or other alkali materials together. Close lid tightly after use, then store.
- After the adhesive has been used up, close the container tightly and dispose as other plastics.
- This product is flammable. Please take the necessary precautions in storage and handling (refer to MSDS).
- Clean the bonding area before use.
- For industrial use only.

### Shelf Life

12 months when stored at 5 ~  $10^{\circ}$ C, unopened.

### Packaging

Available in packing size of 20g (bottle), 50 g (bottle), 500 g (bottle).

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### Disclaimer

### For Industrial Use Only

(Do not use for household purposes)

- The data contained in this report are obtained from experimental results, based on our test
  methods. We cannot assume absolute responsibility for accuracy and safety. Before using this
  product, use your own judgement to determine whether or not this product meets the requirements
  of the application and objectives. This includes the burden of responsibility and hazardous
  danger. The extent of the guarantee provides replacement for products, which are clearly
  unsatisfactory.
- We assume responsibility for neither injury nor property damages resulting from the misuse of this product.
- We do not assume responsibility without written notice or contract.